Thermo Scientific MaxQ Shakers

Reliability. Simplicity.
Flexibility.

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Thermo Scientific MaxQ Shaker Product Selector Guide

MaxQ™ Orbital Shakers

Model	Benchtop (B), Floor (F) or Stackable (S)	Motion	Platform Size Inches (cm)	250 ml Flask Capacity Dedicated* Platform	250 ml Flask Capacity Universal* Platform	Maximum Capacity Largest Flask on a Platform	Orbit Diameter Reciprocating Motion Inches (cm)	RPM Range	Temperature Range °C (T_A=Ambient Temperature)	Maximum Load Lb. (kg)	Refrigeration	Gassing Manifold	Page
MaxQ 2000 Choice of 3 platform sizes	B	Orbital	13 x 11 (33 x 28)	12	9	1 x 6L	0.75 (1.9)	Analog: 40–400 / Digital: 15–500	N/A	35 (15.9)			9–11
			18 x 18 (45.7 x 45.7)	25	16	2 x 6L							
			24 x 18 (60.9 x 45.7)[1]	N/A	24	3 x 6L							
MaxQ 3000 Choice of 2 platform sizes	F	Orbital	30 x 18 (76 x 45.7)	40	24	3 x 6L	1.0 (2.54)	Analog: 40–400 / Digital: 15–500	N/A	50 (22.7)			9–11
			36 x 24 (91 x 60.9)	70	40	6 x 6L							
MaxQ 2506/2508 Flexibility and choice	B	2508: orbital/reciprocating; 2506: reciprocating	13 x 11 (33 x 28)	10	9	1 x 6L	2508: 0.4 (1.2)[2]; 2506: 0.5 to 1.5 (1.2 to 3.8)[3]	2508 Analog: 40–400; 2506 Analog: 10–250	N/A	15 (6.8)			12–13
			18 x 18 (45.7 x 45.7)	25	16	2 x 6L							
			24 x 18 (60.9 x 45.7)	24	24	3 x 6L							
MaxQ 4450 Incubated temperatures in a compact footprint	B	Orbital	13 x 11 (33 x 28)	10	9	4 x 1L	0.75 (1.9)	Analog: 40–400 / Digital: 15–500	T_A +5°C to 80°C	35 (15.9)			14–15
MaxQ 4000 Spacious chamber holds 6 x 2L flasks	B	Orbital	18 x 18 (45.7 x 45.7)	25	16	6 x 2L	0.75 (1.9)	Analog: 40–400 / Digital: 15–500	T_A+10°C to 60°C / T_A+10°C to 80°C / T_A-15°C to 60°C	50 (22.7)	●	●	16–17
MaxQ 5000 Large capacity applications	F	Orbital	30 x 18 (76 x 45.7)	40	24	4 x 6L	1.0 (2.54)	Analog: 40–400 / Digital: 15–500	T_A+10°C to 60°C / T_A-15°C to 60°C	75 (34)	●	●	18–19
MaxQ 6000 Stackable, space-savings	S	Orbital	18 x 18 (45.7 x 45.7)	25	16	2 x 6L	0.75 (1.9)	Digital: 15–500	T_A+10°C to 80°C / T_A-15°C to 80°C	35 (15.9)	●		20–21
MaxQ 8000 Maximum flexibility, stackable design	S	Orbital	29.5 x 18 (74.9 x 45.7)	30	30	12 x 2L	1.0 (2.54)	Digital: 25–400	T_A+10°C to 60°C / T_A-20°C to 60°C	71 (32)	●		22–25
MaxQ 7000 Excellent temp. uniformity	B	Orbital	13 x 11 (33 x 28)	9	9	1 x 6L	0.5 (1.27)	Analog: 40–400 / Digital: 15–500	T_A +5°C to 65°C / T_A -5°C to 65°C	35 (15.9)			26–27

*See following pages 6–7 for a complete description of platform types. [1]Universal platform only; [2]Fixed reciprocating stroke length and orbital motion; [3]Adjustable reciprocating stroke length

MaxQ High-Performance Shakers

Model	Benchtop (B), Floor (F)	Motion	Platform Size Inches (cm)	250 ml Flask Capacity Dedicated* Platform	250 ml Flask Capacity Universal* Platform	Maximum Capacity Largest Flask on a Platform	Orbit Diameter Inches (cm)	RPM Range	Temperature Range °C (T_A=Ambient Temperature)	Maximum Load Lb. (kg)	Refrigeration	Incubation	Page
MaxQ 416 HP Maximize capacity with platform options	B	Orbital	18 x 18 (45.7 x 45.7)	25	18	2 x 6L	1.0 (2.54)	25–525	N/A	71 (32)			30–31
			24 x 18 (60.9 x 45.7)	35	25	4 x 6L							
MaxQ 430 HP Maximum capacity with platform options	F	Orbital	29.5 x 18 (74.9 x 45.7)	40	30	4 x 6L	1.0 (2.54)	25–525	N/A	71 (32)			30–31
			36 x 24 (91.4 x 60.9)	70	55	8 x 6L							
MaxQ 420 HP Large benchtop, excellent temperature uniformity	B	Orbital	18 x 18 (45.7 x 45.7)	25	18	6 x 2L	1.0 (2.54)	25–525	5°C above ambient to 80°C	71 (32)		●	32–33
MaxQ 435 (436) HP Holds large 6L flasks; **MaxQ 480R (481R) HP** Holds large 6L flasks	F	Orbital	29.5 x 18 (74.9 x 45.7)	40	30	4 x 6L	1.0 (2.54)	25–525	5°C above ambient to 60°C / 4°C to 60°C	71 (32)	●	●	34–35

*See following pages 6–7 for a complete description of platform types.

Trust your samples to a proven, reliable product

You invest a lot into the preparation of your samples from growing cultures that express proteins to staining your gels for visualization and much more. Only Thermo Scientific MaxQ shakers deliver outstanding performance, accuracy and reproducible results year after year.

Our cutting-edge orbital shaker designs provide reliable around-the-clock operation ideally suited to keep your cells alive and flourishing within your working environment. Delivering reliability, simplicity and flexibility, our orbital shakers are easy to operate, offer a wide range of options that can grow with you, and will be a partner in your lab for many years — allowing you to spend more time pursuing your objectives and less time managing your shakers.
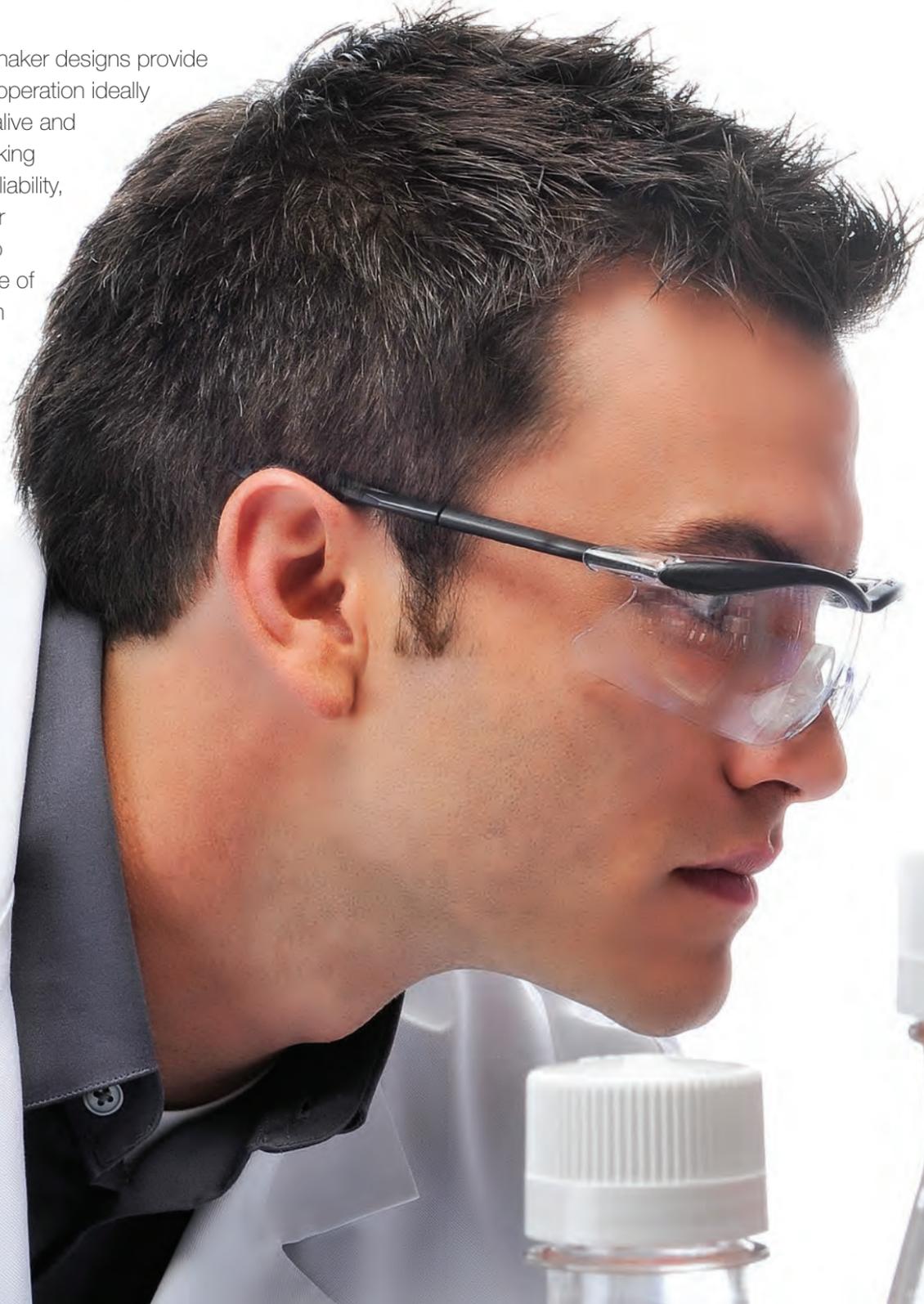
Reliability
Our outstanding drive mechanisms provide continuous 24-hour operation and allow you to shake and stir large and uneven loads, smoothly and uniformly. These innovative designs are available on all Thermo Scientific orbital shakers and both designs come with a lifetime guarantee on drive mechanisms.

Simplicity
Easy-to-use controls let you precisely adjust individual displays for temperature, speed and time. View all parameters simultaneously to prevent risk of error while establishing running conditions.

Flexibility
Benchtop, floor and stackable models are available fully equipped with incubation, refrigeration and water bath options to accommodate any application and budget. Customizable solutions allow you to choose your platform for maximum flexibility and capacity. Platforms allow the addition and interchangeability of clamps that hold various sizes of Thermo Scientific Nalgene Erlenmeyer flasks, beakers, test tube racks and separatory funnels and Thermo Scientific Nunc microwell plates.
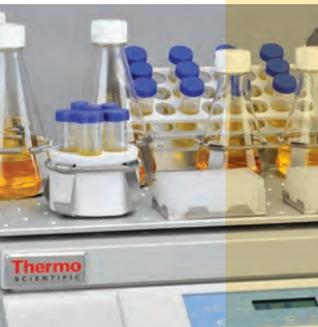
With a wide range of shaker options including analog or digital, incubated or refrigerated and benchtop or floor model, we make it easy to choose the right shaker solution for your laboratory.

Thermo Scientific
MaxQ Analog Shakers

If your lab is analog and you intend you keep it that way, our MaxQ analog shakers are offered at an economical price and include a triple eccentric drive mechanism providing 24-hour operation and allowing shaking of large and uneven loads.

- 40 to 400 rpm speed range; monitored by analog tachometer
- Easy to read LED temperature display
- 1 to 60 minute timer or continuous operation

Thermo Scientific
MaxQ Digital Shakers

Our MaxQ digital shakers contain a triple eccentric drive mechanism to accommodate heavier loads, provide uniform shaking, ensure 24/7 operation and feature a maintenance-free brushless DC motor.

- 15 to 500 rpm speed range
- View temperature, speed and time simultaneously on three individual LED displays
- Continuous timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes
- Audible/Visual alarms protect cultures from temperature and speed deviations

Thermo Scientific
MaxQ Digital HP Shakers

When you require a reliable solution for sensitive cell cultures needing protection from contamination, choose from our MaxQ High Performance line of shakers.

- 25 to 525 rpm speed range
- Backlit display contains run points and set points of temperature, speed and time that can be viewed simultaneously
- Continuous operation or timed operation from 1 minute up to 199 hours and 59 minutes
- Audible/Visual alarms protect cultures from temperature and speed deviations
- HEPA filter for maximum protection from contamination
- Directed airflow system for optimum temperature uniformity and ideal growth conditions even when the units are full

	Feature	MaxQ Analog Shakers	MaxQ Digital Shakers	MaxQ Digital High Performance Shakers
Performance	Drive Mechanism	Triple Eccentric	Triple eccentric	Triple counter-balanced
	Motor	Brushed	Brushless	Brushless, low-heat 24V DC with moisture resistant electronics
	Temperature Controller	PID Controller, ±0.1°C over entire temperature range	PID Controller, ±0.1°C over entire temperature range	PID Controller, ±0.1°C over entire temperature range
	Speed, Display and Range	Analog Tachometer, 40 to 400 rpm	Push Button LED, 15 to 500 rpm	Push Button LED, 25 to 525 rpm
	Temperature, Display and Range	Push Button LED, 10°C to 80°C	Push Button LED, 10°C to 80°C	Push Button LED, 4°C to 80°C
	Time Display	Analog Timer, 1–60 min timer or continuous operation	Push Button LED, 0.1 min – 999 hours or continuous operation	Push Button LED, 1 min – 199 hours and 59 min or continuous operation
	Temperature User Calibration	Standard	Standard	Standard
	Speed User Calibration	No	Standard	Standard
	Soft Start	No	Standard	Standard
	Set Point Retention	Standard	Standard	Standard
Alarms	Speed	No	Audible/Visual, ±10% of set speed	Audible/Visual, ±5 rpm
	Temperature	User adjustable over/under temperature thermostat controls the heat/refrigeration	User adjustable over/under temperature thermostat controls the heat/refrigeration	User adjustable over/under temp thermostat with independent probe controls heat/refrigeration
	Temperature Set Point	Audible/Visual, over/under temperature tracking adjustable within ±1°C	Audible/Visual, over/under temperature tracking adjustable within ±1°C	Audible/Visual, over/under temperature tracking adjustable within ±1°C
	Temperature Limits	Audible/Visual, over/under temperature tracking adjustable within ±1°C	Audible/Visual, over/under temperature tracking adjustable within ±1°C	Audible/Visual, over/under temperature tracking adjustable within ±1°C
	Unbalanced Load	No	Auto Platform Stop	Auto Platform Stop
	Lid Open	Auto Platform Stop	Auto Platform Stop	Auto Platform Stop
Data Management	RS232 Interface	No	Standard	Standard
	Recorder Output	No	Standard	Standard
Other	Certifications	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE
	Warranty	One year labor, five year parts, lifetime drive mechanism	One year labor, five years parts, lifetime drive mechanism	One year labor, five years parts, lifetime drive mechanism

Customize your shaker solution

On the following pages, you'll find selection guides to help you build the optimal shaker for your lab and application. No matter which solution you choose, you'll find that our ordering process allows you to customize your platform for maximum flexibility and capacity.

1 Select the shaker for your application:

A Select a temperature range*

B Check the exterior dimensions to fit your space

C Determine the vessel type and capacity on the platform

D Choose analog or digital system

*temperature range not applicable on open air models

Thermo Scientific MaxQ 4450 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 4450 – Incubated Shaker											
Analog	40–400	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	11-675-43	11-676-096
Digital	15–500 ±1	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	11-675-202	11-676-097
MaxQ 4450 – Incubated Shaker with Cooling Coil (Requires Chiller)											
Analog	40–400	0.75 (1.9)	35 (15.9)	5°C below ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	11-675-470	11-676-098
Digital	15–500 ±1	0.75 (1.9)	35 (15.9)	5°C below ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	11-675-471	11-676-099

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 4450				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	11 x 13" (28 x 33 cm)	Platform without Clamps	14-272-2H
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

2 Choose your platform based on your needs:

Universal platforms – Choose the size platform you need appropriate to your selected shaker. With a universal platform you can maximize flexibility by selecting a mixture of different size clamps from the Universal Clamp Guide.

Dedicated platforms – Select the platform with pre-installed shaker clamps appropriate to your selected shaker. If using a single-vessel size only, such as a flask, these platforms provide maximum capacity.

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 4450				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	11 x 13" (28 x 33 cm)	Platform without Clamps	14-272-2H
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
		MaxQ 4450
		11 x 13" (28 x 33 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475	
Microplate/Deep-well plate	14-512-314	5
10 ml Erlenmeyer Flask	14-512-315	60
25 ml Erlenmeyer Flask	22-262-769	60
50 ml Erlenmeyer Flask	11-675-476	30

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size	Description	Capacity	Model No.
11 x 13" (28 x 33 cm)	10 ml Erlenmeyer Flask	60	11-675-404
	25 ml Erlenmeyer Flask	30	11-675-405
	50 ml Erlenmeyer Flask	30	11-675-406
	125 ml Erlenmeyer Flask	15	11-675-407
	250 ml Erlenmeyer Flask	10	11-675-409
	500 ml Erlenmeyer Flask	6	11-675-411
	1L Erlenmeyer Flask	4	11-676-045

3 Customize your platform with universal clamps
(available only with universal platforms)

Select the clamps you need from a wide selection available as seen in the Universal Clamp Guide.

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
		MaxQ 4450
		11 x 13" (28 x 33 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475	
Microplate/Deep-well plate	14-512-314	5
10 ml Erlenmeyer Flask	14-512-315	60
25 ml Erlenmeyer Flask	22-262-769	60
50 ml Erlenmeyer Flask	11-675-476	30

MaxQ 2000 & 3000
Open Air Platform Shakers
Increase shaking capacity in a small footprint

Choose from several platform sizes to increase capacity by simply changing the platform

- Small shaker footprint saves valuable bench space
- Units operate in temperature range of 0°C to +40°C and humidity conditions from 20 to 80% non-condensing enabling them to be used in a variety of environments
- Triple eccentric drives handle heavy platform loads (MaxQ 2000: 35 lbs, MaxQ 3000: 50 lbs)

Digital CO_2 resistant option
- Electrical and mechanical components have been treated to protect from up to 10% CO_2 and 90% humidity conditions non-condensing
- Prevents humidity and CO_2 from reacting with electrical components and forming carbolic acid in a CO_2* environment

*Some CO_2 incubators may require cooling. Please consult your manufacturer.

Applications

- Cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing

- Bacterial suspensions
- Staining and destaining
- Washing procedures
- Hybridization

Ordering Information
Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 2000 and MaxQ 3000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Overall Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 2000 – Small Open Air Shakers									
Analog	40–400	0.75 (1.9)	35 (15.9)	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	47 (21.3)	**11-675-927**	**11-676-089**
Digital	15–500 ±1	0.75 (1.9)	35 (15.9)	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	47 (21.3)	**11-675-200**	**11-676-090**
Digital, CO₂ Resistant	15–500 ±1	0.75 (1.9)	35 (15.9)	17.4 (44.2)	13.5 (34.3)	6.4 (16.3)	47 (21.3)	**11-675-212**	**11-676-091**
MaxQ 3000 – Large Open Air Shakers									
Analog	40–400	1.0 (2.54)	50 (22.7)	25.8 (65.5)	29.4 (74.4)	9.7 (24.6)	207 (93.9)	**11-675-929**	**11-676-092**
Digital	15–500 ±1	1.0 (2.54)	50 (22.7)	25.8 (65.5)	29.4 (74.4)	9.7 (24.6)	207 (93.9)	**11-675-201**	**11-676-093**

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 2000				Model No.
Platforms Choose the platform that best fits your needs.	**Universal Platforms** Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	11 x 13" (28 x 33 cm)	Platform without Clamps	**14-272-2H**[1]
		11 x 13" (28 x 33 cm)	Dual Stacked Platform without Clamps	**11-675-402**
		18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	**14-272-2J**[1]
		18 x 18" (45.7 x 45.7 cm)	Dual Stacked Platform without Clamps	**11-675-474**
		18 x 24" (45.7 x 60.9 cm)	Platform without Clamps	**14-512-313**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
Clamps	Mix and match clamps for your Universal Platform.			**See Universal Clamp Guide below**
Misc. Accessories	Adapter set for stacking two platforms (Models 142722H and 142722J only)			**11-675-403**
MaxQ 3000				Model No.
Platforms Choose the platform that best fits your needs.	**Universal Platforms** Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	30 x 18" (76 x 45.7 cm)	Platform without Clamps	**14-272-8F**
		30 x 18" (76 x 45.7 cm)	Dual Stacked Platform without Clamps	**11-675-473**
		36 x 24" (91 x 60.9 cm)	Platform without Clamps	**22-262-747**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	30 x 18" (76 x 45.7 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
		36 x 24" (91 x 60.9 cm)	Platform with Clamps	**See Dedicated Platforms on p. 11**
Clamps	Mix and match clamps for your Universal Platform.			**See Universal Clamp Guide below**

[1]Stackable, purchase of two platforms and adapter set required for stacking

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide — Maximum clamp capacity of vessels for the Universal Platform				
		MaxQ 2000			**MaxQ 3000**	
		11 x 13" (28 x 33 cm)	18 x 18" (45.7 x 45.7 cm)	18 x 24" (45.7 x 60.9 cm)	30 x 18" (76 x 45.7 cm)	36 x 24" (91 x 60.9 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475					
Microplate/Deep-well plate	14-512-314	5	10	15	18	29
10 ml Erlenmeyer Flask	14-512-315	60	113	157	112	160
25 ml Erlenmeyer Flask	22-262-769	60	64	80	112	160
50 ml Erlenmeyer Flask	11-675-476	30	32	40	112	160
125 ml Erlenmeyer Flask	14-272-4AA	13	32	40	44	80
250 ml Erlenmeyer Flask	14-272-4B	9	16	24	24	40
300 ml Erlenmeyer Flask	14-512-316	7	16	20	20	40
500 ml Erlenmeyer Flask	22-256-959	6	16	20	18	40
1L Erlenmeyer Flask	14-272-4F	4	9	10	12	21
2L Erlenmeyer Flask	22-262-773	1	6	5	6	11
4L Erlenmeyer Flask	14-512-317	1	4	4	6	11
6L Erlenmeyer Flask	14-512-318	1	2	3	3	6
2500 ml Low Form Culture Flask	14-512-319	1	1	2	3	6
2800 ml Fernbach Flask	14-512-320	1	4	4	5	8
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	13-687-50[3]	–	–	–	–	–
Test Tube Racks – Full Size						
10–13 mm, red, 6 x 12 array	14-512-107	3	6	8	13	16
14–16 mm, orange, 6 x 12 array	14-512-109[1]	2	4	6	7	10
17–20 mm, white, 4 x 10 array	14-512-111	3	5	6	9	14
21–25 mm, blue, 4 x 10 array	14-512-113	2	3	4	7	7
26–30 mm, green, 3 x 8 array	14-512-115[2]	2	4	6	7	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14-512-117	2	5	6	8	10
Test Tube Racks – Half Size						
10–13 mm, red, 6 x 6 array	14-512-108	6	12	15	21	25
14–16 mm, orange, 6 x 6 array	14-512-110[1]	4	6	8	10	12
17–20 mm, white, 4 x 5 array	14-512-112	4	8	13	18	20
21–25 mm, blue, 4 x 4 array	14-512-114	4	6	9	10	15
26–30 mm, green, 3 x 3 array	14-512-116[2]	6	9	12	15	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14-512-118	4	8	10	14	20

[1]Fits 15 ml centrifuge tubes   [2]Fits 50 ml centrifuges tubes   [3]Can be cut to fit, reusable

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

MaxQ 2000 / MaxQ 2508 / MaxQ 2506 Shakers

Clamps come installed to provide maximum capacity Platform Size		Capacity	Model No.
11 x 13" (28 x 33 cm)	10 ml Erlenmeyer Flask	60	**11-675-404**
	25 ml Erlenmeyer Flask	30	**11-675-405**
	50 ml Erlenmeyer Flask	30	**11-675-406**
	125 ml Erlenmeyer Flask	15	**11-675-407**
	250 ml Erlenmeyer Flask	10	**11-675-409**
	500 ml Erlenmeyer Flask	6	**11-675-411**
	1L Erlenmeyer Flask	4	**11-676-045**
	2L Erlenmeyer Flask	4	**11-675-412**
	Separatory Funnel (500 ml to 2L)	2	**14-512-310**
	Utility Tray	–	**14-278-57A**
	11 x 13" Adjustable Vessel Platform	–	**11-675-408**
	5 Tier, holds platelet bags (10 x 10")	5 bags	**22-034-760**
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer Flask	113	**11-675-413**
	25 ml Erlenmeyer Flask	64	**11-675-414**
	50 ml Erlenmeyer Flask	64	**11-675-415**
	125 ml Erlenmeyer Flask	32	**14-272-4A**
	250 ml Erlenmeyer Flask	25	**11-675-425**
	300 ml Erlenmeyer Flask	16	**11-675-426**
	500 ml Erlenmeyer Flask	16	**11-675-428**
	1L Erlenmeyer Flask	9	**11-675-429**
	2L Erlenmeyer Flask	5	**11-675-430**
	Separatory Funnel (500 ml to 2L)	3	**14-512-311**
	Utility Tray	–	**11-675-424**
	18 x 18" adjustable vessel platform without bottom for MaxQ 4000 and 6000 series shakers	–	**11-675-427**
	18 x 18" adjustable vessel platform with bottom for MaxQ 2000 shaker	–	**11-675-410**
	10 ml beaker	152	**11-675-416**
	20 ml beaker	104	**11-675-417**
	30 ml beaker	104	**11-675-418**
	100 ml beaker	44	**11-675-419**
	250 ml beaker	25	**11-675-420**
	400 ml beaker	25	**11-675-422**
	600 ml beaker	16	**11-675-423**

MaxQ 3000 Shaker

Clamps come installed to provide maximum capacity Platform Size		Capacity	Model No.
30 x 18" (76 x 45.7 cm)	10 ml Erlenmeyer Flask	112	**11-675-431**
	25 ml Erlenmeyer Flask	112	**11-675-436**
	50 ml Erlenmeyer Flask	112	**11-675-437**
	125 ml Erlenmeyer Flask	56	**11-675-438**
	250 ml Erlenmeyer Flask	40	**11-675-441**
	300 ml Erlenmeyer Flask	24	**11-675-449**
	500 ml Erlenmeyer Flask	24	**11-675-454**
	1L Erlenmeyer Flask	12	**11-675-455**
	2L Erlenmeyer Flask	12	**11-675-456**
	4L Erlenmeyer Flask	6	**11-675-432**
	6L Erlenmeyer Flask	4	**11-675-433**
	Separatory Funnel (500 ml to 2L)	10	**11-675-440**
	Utility Tray	–	**11-675-439**
	18 x 30" Adjustable Vessel Platform	–	**11-675-453**
	2500 ml Low Form Culture Flask	5	**11-675-434**
	2800 ml Fernbach Flask	6	**11-675-435**
36 x 24" (91 x 60.9 cm)	50 ml Erlenmeyer Flask	160	**11-675-442**
	125 ml Erlenmeyer Flask	80	**11-675-443**
	250 ml Erlenmeyer Flask	70	**11-675-444**
	500 ml Erlenmeyer Flask	40	**11-675-445**
	1L Erlenmeyer Flask	18	**11-675-446**
	2L Erlenmeyer Flask	15	**11-675-447**
	4L Erlenmeyer Flask	8	**11-675-448**
	6L Erlenmeyer Flask	6	**11-675-450**
	Separatory Funnel (500 ml to 2L)	16	**11-675-457**
	2500 ml Low Form Culture Flask	6	**11-675-451**
	2800 ml Fernbach Flask	8	**11-675-452**

Utility Tray
Model No. 14-278-57A

11 x 13" Adjustable Vessel Platform
Model No. 11-675-408

18 x 18", 50 ml Erlenmeyer Flask Platform
Model No. 11-675-415

Dedicated Separatory Funnel Platform
Model No. 14-512-311

30 x 18" Dual Tiered Platforms
Model No. 11-675-473 (See Accessories table on page 10)

Dual Action Orbital and Reciprocating Open Air Platform Shakers

Increased flexibility with choice of reciprocating or orbital shakers

- Analog operating system is affordably priced
- Interchangeable 11 x 13", 18 x 18" and 18 x 24" platforms are available to accommodate a variety of labware
- On dual action models, control lever changes shaking motion while unit is stationary or in operation
- Provides back-and-forth motion or circular orbital motion for a variety of applications
- Operates in temperature ranges of 4 to 40° and humidity conditions of 20–80% non-condensing for use in incubators, warm rooms, environmental chambers and refrigerators

Applications

• Extractions	• Growth of bacteria
• Mixing blood samples	• Dissolution studies
• Silver staining of polyacrylamide gels	• Staining of electrophoresis gels

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

Thermo Scientific Dual-Action Orbital and Reciprocating Shakers

Shaker Options	Speed Range (rpm)	Orbit Diameter Inch (cm)	Max. Load Lb. (kg)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
				L	W	H			
MaxQ 2508 – Dual Action Orbital and Reciprocating Shakers									
Analog	40–400	0.4 (1.2)	15 (6.8)	17.4 (44.2)	13.5 (34.3)	7 (17.8)	38 (17.2)	**11-675-150**	**11-675-151**
MaxQ 2506 – Reciprocating Shakers									
Analog	10–250	Adjustable from 0.5 to 1.5 (1.2 to 3.8)	15 (6.8)	17.4 (44.2)	13.5 (34.3)	7 (17.8)	27 (12.3)	**11-675-152**	**11-675-153**

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 2508 and 2506 Series				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	11 x 13" (28 x 33 cm)	Platform without Clamps	14-272-2H[1]
		11 x 13" (28 x 33 cm)	Dual Stacked Platform without Clamps	11-675-402
		18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	14-272-2J[1]
		18 x 18" (45.7 x 45.7 cm)	Dual Stacked Platform without Clamps	11-675-474
		18 x 24" (45.7 x 60.9 cm)	Platform without Clamps	11-676-001
	Dedicated Platforms Clamps come installed to provide maximum capacity	11 x 13" (28 x 33 cm)	Platform with Clamps	See Dedicated Platforms on p. 11
		18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms on p. 11
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

[1]Stackable, purchase of two platforms and adapter set required for stacking

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform		
		MaxQ 2508 and 2506		
		11 x 13" (28 x 33 cm)	18 x 18" (45.7 x 45.7 cm)	18 x 24" (45.7 x 60.9 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475			
Microplate/Deep-well plate	14-512-314	5	10	15
10 ml Erlenmeyer Flask	14-512-315	60	113	157
25 ml Erlenmeyer Flask	22-262-769	60	64	80
50 ml Erlenmeyer Flask	11-675-476	30	32	40
125 ml Erlenmeyer Flask	14-272-4AA	13	32	40
250 ml Erlenmeyer Flask	14-272-4B	9	16	24
300 ml Erlenmeyer Flask	14-512-316	7	16	20
500 ml Erlenmeyer Flask	22-256-959	6	16	20
1L Erlenmeyer Flask	14-272-4F	4	9	10
2L Erlenmeyer Flask	22-262-773	1	6	5
4L Erlenmeyer Flask	14-512-317	1	4	4
6L Erlenmeyer Flask	14-512-318	1	2	3
2500 ml Low Form Culture Flask	14-512-319	1	1	2
2800 ml Fernbach Flask	14-512-320	1	4	4
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	13-687-50[3]	–	–	–
Test Tube Racks – Full Size				
10–13 mm, red, 6 x 12 array	14-512-107	3	6	8
14–16 mm, orange, 6 x 12 array	14-512-109[1]	2	4	6
17–20 mm, white, 4 x 10 array	14-512-111	3	5	6
21–25 mm, blue, 4 x 10 array	14-512-113	2	3	4
26–30 mm, green, 3 x 8 array	14-512-115[2]	2	4	6
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14-512-117	2	5	6
Test Tube Racks – Half Size				
10–13 mm, red, 6 x 6 array	14-512-108	6	12	15
14–16 mm, orange, 6 x 6 array	14-512-110[1]	4	6	8
17–20 mm, white, 4 x 5 array	14-512-112	4	8	13
21–25 mm, blue, 4 x 4 array	14-512-114	4	6	9
26–30 mm, green, 3 x 3 array	14-512-116[2]	6	9	12
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14-512-118	4	8	10

[1]Fits 15 ml centrifuge tubes [2]Fits 50 ml centrifuges tubes [3]Can be cut to fit, reusable

Miscellaneous Accessories

MaxQ 2508 and 2506 Series	Model No.
Adapter Set for stacking two platforms (Models 142722H and 142722J only)	11-675-403

Five-Tier Blood Bag Platform
Model No. 22-034-760

- 5 tier aluminum platform measures 13L x 11W x 14H in. (33 x 27.9 x 35.6 cm)
- Distance between platforms is 3.25" (8.26 cm)
- Each of the five platforms is equipped with a white vinyl ribbed mat
- Mix contents of 10 x 10 in (25.4 x 25.4 cm) bags of platlets used in platlet phoresis applications

MaxQ 4450 Compact Benchtop Incubated Shakers

Flexible shaking option for your applications at an affordable price

Combine incubated and refrigerated temperatures in an orbital shaker in a small footprint

- Holds up to four one liter flasks
- Requires minimal bench space
- Clear lid lets you view samples without disturbing chamber atmosphere
- Achieve temperature ranges from 20°C to 30°C when connected to a circulating chiller

Models available with cooling coil providing refrigerated atmosphere for plasmid purification and protein expression in bacteria

Applications

- Cell culture
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Solubility studies
- Plasmid purification
- Bacterial suspensions
- Washing procedures
- Protein expression in bacteria

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

Thermo Scientific MaxQ 4450 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 4450 – Incubated Shaker											
Analog	40–400	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	**11-675-43**	**11-676-096**
Digital	15–500 ±1	0.75 (1.9)	35 (15.9)	5°C above ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	**11-675-202**	**11-676-097**
MaxQ 4450 – Incubated Shaker with Cooling Coil (Requires Chiller)											
Analog	40–400	0.75 (1.9)	35 (15.9)	5°C below ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	**11-675-470**	**11-676-098**
Digital	15–500 ±1	0.75 (1.9)	35 (15.9)	5°C below ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	27.2 (69.1)/ 17.3 (43.9)	14.1 (35.8)/ 13.3 (33.8)	17.8 (45.2)/ 10.7 (27.2)	77 (35)	**11-675-471**	**11-676-099**

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 4450				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	11 x 13" (28 x 33 cm)	Platform without Clamps	**14-272-2H**
	Dedicated Platforms Clamps come installed to provide maximum capacity.	11 x 13" (28 x 33 cm)	Platform with Clamps	**See Dedicated Platforms below**
Clamps	Mix and match clamps for your Universal Platform.			**See Universal Clamp Guide below**

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform MaxQ 4450 11 x 13" (28 x 33 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	**11-675-475**	
Microplate/Deep-well plate	**14-512-314**	5
10 ml Erlenmeyer Flask	**14-512-315**	60
25 ml Erlenmeyer Flask	**22-262-769**	60
50 ml Erlenmeyer Flask	**11-675-476**	30
125 ml Erlenmeyer Flask	**14-272-4AA**	13
250 ml Erlenmeyer Flask	**14-272-4B**	9
300 ml Erlenmeyer Flask	**14-512-316**	7
500 ml Erlenmeyer Flask	**22-256-959**	6
1L Erlenmeyer Flask	**14-272-4F**	4
2500 ml Low Form Culture Flask	**14-512-319**	1
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	**13-687-50**[3]	–
Test Tube Racks – Full Size		
10–13 mm, red, 6 x 12 array	**14-512-107**	3
14–16 mm, orange, 6 x 12 array	**14-512-109**[1]	2
17–20 mm, white, 4 x 10 array	**14-512-111**	3
21–25 mm, blue, 4 x 10 array	**14-512-113**	2
26–30 mm, green, 3 x 8 array	**14-512-115**[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	**14-512-117**	2
Test Tube Racks – Half Size		
10–13 mm, red, 6 x 6 array	**14-512-108**	6
14–16 mm, orange, 6 x 6 array	**14-512-110**[1]	4
17–20 mm, white, 4 x 5 array	**14-512-112**	4
21–25 mm, blue, 4 x 4 array	**14-512-114**	4
26–30 mm, green, 3 x 3 array	**14-512-116**[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	**14-512-118**	4

[1]Fits 15 ml centrifuge tubes   [2]Fits 50 ml centrifuges tubes   [3]Can be cut to fit, reusable

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity

Platform Size	Description	Capacity	Model No.
11 x 13" (28 x 33 cm)	10 ml Erlenmeyer Flask	60	**11-675-404**
	25 ml Erlenmeyer Flask	30	**11-675-405**
	50 ml Erlenmeyer Flask	30	**11-675-406**
	125 ml Erlenmeyer Flask	15	**11-675-407**
	250 ml Erlenmeyer Flask	10	**11-675-409**
	500 ml Erlenmeyer Flask	6	**11-675-411**
	1L Erlenmeyer Flask	4	**11-676-045**

Miscellaneous Accessories

MaxQ 4450	Model No.
Upright chiller, 6L reservoir, required to achieve temperatures from 20°C to 30°C, 120V	**11-675-472**
Upright chiller, 6L reservoir, required to achieve temperatures from 20°C to 30°C, 240V	**11-676-140**

Unwire test tube rack clamps

MaxQ 4000 Large Benchtop Incubated and Refrigerated Shakers

Spacious chamber in a footprint designed for the benchtop

Combines incubated and refrigerated temperatures in an orbital shaker with a spacious chamber

- Large Chamber holds six 2L flasks
- Clear acrylic lid provides high visibility for sample harvesting
- Safety interlock protects operator by stopping platform motion when lid is lifted

Applications
- Cell culture
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Solubility studies
- Plasmid purification
- Bacterial suspensions
- Washing procedures
- Protein expression

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 4000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 4000 – Large Incubated Benchtop Shaker											
Analog	40–400	0.75 (1.9)	50 (22.7)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	167 (75.8)	11-675-931	11-676-100
Digital	15–500 ±1	0.75 (1.9)	50 (22.7)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	167 (75.8)	11-675-204	11-676-101
MaxQ 4000 – Large Incubated High Temperature Benchtop Shaker											
Analog	40–400	0.75 (1.9)	50 (22.7)	10°C above ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	167 (75.8)	11-675-933	11-676-102
Digital	15–500 ±1	0.75 (1.9)	50 (22.7)	10°C above ambient to 80°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	167 (75.8)	11-675-205	11-676-103
MaxQ 4000 – Large Incubated and Refrigerated Benchtop Shaker											
Analog	40–400	0.75 (1.9)	50 (22.7)	15°C below ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	34 (86.4)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	212 (96.2)	11-675-935	11-676-104
Digital	15–500 ±1	0.75 (1.9)	50 (22.7)	15°C below ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	34 (86.4)/ 20 (50.8)	22.5 (57.2)/ 21 (53.3)	22 (55.9)/ 13 (33)	212 (96.2)	11-675-206	11-676-105

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 4000				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	14-272-2J
	Dedicated Platforms Clamps come installed to provide maximum capacity.	18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform MaxQ 4000 18 x 18" (45.7 x 45.7 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475	
Microplate/Deep-well plate	14-512-314	10
10 ml Erlenmeyer Flask	14-512-315	113
25 ml Erlenmeyer Flask	22-262-769	64
50 ml Erlenmeyer Flask	11-675-476	32
125 ml Erlenmeyer Flask	14-272-4AA	32
250 ml Erlenmeyer Flask	14-272-4B	16
300 ml Erlenmeyer Flask	14-512-316	16
500 ml Erlenmeyer Flask	22-256-959	16
1L Erlenmeyer Flask	14-272-4F	9
2L Erlenmeyer Flask	22-262-773	6
2500 ml Low Form Culture Flask	14-512-319	1
2800 ml Fernbach Flask	14-512-320	4
Adhesive Flask Mat, 9 x 9" (23 x 23cm)	13-687-50[3]	–
Test Tube Racks – Full Size		
10–13 mm, red, 6 x 12 array	14-512-107	6
14–16 mm, orange, 6 x 12 array	14-512-109[1]	4
17–20 mm, white, 4 x 10 array	14-512-111	5
21–25 mm, blue, 4 x 10 array	14-512-113	3
26–30 mm, green, 3 x 8 array	14-512-115[2]	4
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14-512-117	5
Test Tube Racks – Half Size		
10–13 mm, red, 6 x 6 array	14-512-108	12
14–16 mm, orange, 6 x 6 array	14-512-110[1]	6
17–20 mm, white, 4 x 5 array	14-512-112	8
21–25 mm, blue, 4 x 4 array	14-512-114	6
26–30 mm, green, 3 x 3 array	14-512-116[2]	9
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14-512-118	8

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

	Clamps come installed to provide maximum capacity		
Platform Size	Description	Capacity	Model No.
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer Flask	113	11-675-413
	25 ml Erlenmeyer Flask	64	11-675-414
	50 ml Erlenmeyer Flask	64	11-675-415
	125 ml Erlenmeyer Flask	32	14-272-4A
	250 ml Erlenmeyer Flask	25	11-675-425
	300 ml Erlenmeyer Flask	16	11-675-426
	500 ml Erlenmeyer Flask	16	11-675-428
	1L Erlenmeyer Flask	9	11-675-429
	2L Erlenmeyer Flask	5	11-675-430
	10 ml Beaker	152	11-675-416
	20 ml Beaker	104	11-675-417
	30 ml Beaker	104	11-675-418
	100 ml Beaker	44	11-675-419
	250 ml Beaker	25	11-675-420
	400 ml Beaker	25	11-675-422
	600 ml Beaker	16	11-675-423
	Utility Tray	–	11-675-424
	18" x 18" Adjustable Vessel Platform without bottom	–	11-675-427

Miscellaneous Accessories

MaxQ 4000	Model No.
Gassing manifold with 8 outlets (customer installed)	11-675-458

Note: Optional gassing manifold enables direct gassing into flasks for anaerobic cultures.

[1]Fits 15 ml centrifuge tubes   [2]Fits 50 ml centrifuges tubes   [3]Can be cut to fit, reusable

MaxQ 5000 Incubated and Refrigerated Floor Shakers

Complete large capacity applications with ease

Combines incubated and refrigerated temperatures with an orbital shaker for large capacity applications

- Large chamber holds four 6L flasks
- Easy-access drain system with quick disconnect fitting permits easy clean up of spills
- Foot pedal opens lid for hands free operation
- Retractable foot casters allow easy positioning in the lab
- Observe contents through large viewing window
- Access ports in side walls for probes, thermocouples or sensors

Applications

• Cell culture	• Bacterial suspensions
• Solubility studies	• Staining and destaining
• Extraction procedures	• Washing procedures
• General mixing	• Hybridizations
• Protein expression	• Plasmid purification

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 5000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 5000 – Large Incubated Floor Shaker											
Analog	40–400	1.0 (2.54)	75 (34)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	476 (215.9)	11-675-937	11-676-106
Digital	15–500 ±1	1.0 (2.54)	75 (34)	10°C above ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	476 (215.9)	11-675-207	11-676-107
MaxQ 5000 – Large Incubated and Refrigerated Floor Shaker											
Analog	40–400	1.0 (2.54)	75 (34)	15°C below ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	512 (232.2)	11-675-939	11-676-108
Digital	15–500 ±1	1.0 (2.54)	75 (34)	15°C below ambient to 60°C ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	32 (81.3)/ 21.9 (55.6)	41 (104.1)/ 34.2 (86.9)	41 (104.1)/ 21.2 (53.8)	512 (232.2)	11-675-208	11-676-109

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 5000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	30 x 18" (76 x 45.7 cm)	Platform without Clamps	14-272-8F
	Dedicated Platforms Clamps come installed to provide maximum capacity.	30 x 18" (76 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
		MaxQ 5000
		30 x 18" (76 x 45.7 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475	
Microplate/Deep-well plate	14-512-314	18
10 ml Erlenmeyer Flask	14-512-315	112
25 ml Erlenmeyer Flask	22-262-769	112
50 ml Erlenmeyer Flask	11-675-476	112
125 ml Erlenmeyer Flask	14-272-4AA	44
250 ml Erlenmeyer Flask	14-272-4B	24
300 ml Erlenmeyer Flask	14-512-316	20
500 ml Erlenmeyer Flask	22-256-959	18
1L Erlenmeyer Flask	14-272-4F	12
2L Erlenmeyer Flask	22-262-773	6
4L Erlenmeyer Flask	14-512-317	6
6L Erlenmeyer Flask	14-512-318	3
2500 ml Low Form Culture Flask	14-512-319	3
2800 ml Fernbach Flask	14-512-320	5
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	13-687-50[3]	–
Test Tube Racks – Full Size		
10–13 mm, red, 6 x 12 array	14-512-107	13
14–16 mm, orange, 6 x 12 array	14-512-109[1]	7
17–20 mm, white, 4 x 10 array	14-512-111	9
21–25 mm, blue, 4 x 10 array	14-512-113	7
26–30 mm, green, 3 x 8 array	14-512-115[2]	7
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14-512-117	8
Test Tube Racks – Half Size		
10–13 mm, red, 6 x 6 array	14-512-108	21
14–16 mm, orange, 6 x 6 array	14-512-110[1]	10
17–20 mm, white, 4 x 5 array	14-512-112	18
21–25 mm, blue, 4 x 4 array	14-512-114	10
26–30 mm, green, 3 x 3 array	14-512-116[2]	15
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14-512-118	14

[1]Fits 15 ml centrifuge tubes [2]Fits 50 ml centrifuges tubes [3]Can be cut to fit, reusable

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Platform Size		Capacity	Model No.
Clamps come installed to provide maximum capacity			
30 x 18" (76 x 45.7 cm)	10 ml Erlenmeyer Flask	112	11-675-431
	25 ml Erlenmeyer Flask	112	11-675-436
	50 ml Erlenmeyer Flask	112	11-675-437
	125 ml Erlenmeyer Flask	56	11-675-438
	250 ml Erlenmeyer Flask	40	11-675-441
	300 ml Erlenmeyer Flask	24	11-675-449
	500 ml Erlenmeyer Flask	24	11-675-454
	1L Erlenmeyer Flask	12	11-675-455
	2L Erlenmeyer Flask	12	11-675-456
	4L Erlenmeyer Flask	6	11-675-432
	6L Erlenmeyer Flask	4	11-675-433
	2500 ml Low Form Culture Flask	5	11-675-434
	2800 ml Fernbach Flask	6	11-675-435
	Utility Tray	–	11-675-439
	Adjustable Vessel Platform	–	11-675-453

Miscellaneous Accessories

MaxQ 5000	Model No.
Stainless steel shelf for chamber L x W 33.25 x 4.0" (84.5 x 10.2 cm)	11-675-460
Gassing manifold with 8 outlets (customer installed)	11-675-461
Gassing manifold with 16 outlets (customer installed)	11-675-459

Note: Optional gassing manifold enables direct gassing into flasks for anaerobic cultures.

Easy-access drain system offers convenience in draining and disinfecting the system.

Retractable foot casters allow easy manipulation in lab.

MaxQ 6000 Incubated and Refrigerated Stackable Shakers

Save valuable lab space with stackable shakers

Combines orbital shaking with general purpose incubation for added versatility

- Units can be stacked two high on the floor to save valuable bench space
- Two adjustable-height shelves provide added storage
- Large viewing window and internal light offer sample visibility
- Door can be hinged from the right or left by the user for convenient placement in the lab
- In-chamber electrical outlet provides power for operating stirrers or rotators
- Spacious stainless steel chamber permits stacking an 18 x 18" platform to double the shaking capacity

Applications

- Bacterial suspensions
- Solubility studies
- Extraction procedures
- General mixing
- Staining and destaining
- Hybridizations
- Diagnostic test
- Washing procedures
- Protein expression
- Plasmid purification

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 6000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model. No. 120V	Model No. 240V
						L	W	H			
MaxQ 6000 – Large Stackable Incubated Floor Shaker											
Digital	15–500 ±1 (unstacked)	0.75 (1.9)	35 (15.9)	10°C above ambient to 80°C, ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	33 (83.8)	27 (69.9)	40.5 (102.9)	330 (150)	11-675-209 (60 Hz)	11-676-110 (50/60 Hz)
	15–300 ±1 (stacked)					21 (53.3)	22 (55.9)	27 (68.6)			
MaxQ 6000 – Large Stackable Incubated and Refrigerated Floor Shaker											
Digital	15–500 ±1 (unstacked)	0.75 (1.9)	35 (15.9)	15°C below ambient to 80°C, ±0.1°C at 37°C in flask	±0.5°C at 37°C in flask	33 (83.8)	27 (69.9)	40.5 (102.9)	430 (195)	11-675-210 (60 Hz)	11-676-111 (50 Hz)
	15–300 ±1 (stacked)					21 (53.3)	22 (55.9)	27 (68.6)			

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 6000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	18 x 18" (45.7 x 45.7 cm)	Platform without Clamps	14-272-2J
		18 x 18" (45.7 x 45.7 cm)	Dual Stacked Platform without Clamps	11-675-474
	Dedicated Platforms Clamps come installed to provide maximum capacity.	18 x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

Universal Clamp Guide

Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
		MaxQ 6000
		18 x 18" (45.7 x 45.7 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475	
Microplate/Deep-well plate	14-512-314	10
10 ml Erlenmeyer Flask	14-512-315	113
25 ml Erlenmeyer Flask	22-262-769	64
50 ml Erlenmeyer Flask	11-675-476	32
125 ml Erlenmeyer Flask	14-272-4AA	32
250 ml Erlenmeyer Flask	14-272-4B	16
300 ml Erlenmeyer Flask	14-512-316	16
500 ml Erlenmeyer Flask	22-256-959	16
1L Erlenmeyer Flask	14-272-4F	9
2L Erlenmeyer Flask	22-262-773	6
4L Erlenmeyer Flask	14-512-317	4
6L Erlenmeyer Flask	14-512-318	2
2500 ml Low Form Culture Flask	14-512-319	1
2800 ml Fernbach Flask	14-512-320	4
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	13-687-50[3]	–
Test Tube Rack – Full Size		
10–13 mm, red, 6 x 12 array	14-512-107	6
14–16 mm, orange, 6 x 12 array	14-512-109[1]	4
17–20 mm, white, 4 x 10 array	14-512-111	5
21–25 mm, blue, 4 x 10 array	14-512-113	3
26–30 mm, green, 3 x 8 array	14-512-115[2]	4
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14-512-117	5
Test Tube Racks – Half Size		
10–13 mm, red, 6 x 6 array	14-512-108	12
14–16 mm, orange, 6 x 6 array	14-512-110[1]	6
17–20 mm, white, 4 x 5 array	14-512-112	8
21–25 mm, blue, 4 x 4 array	14-512-114	6
26–30 mm, green, 3 x 3 array	14-512-116[2]	9
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14-512-118	8

[1]Fits 15 ml centrifuge tubes [2]Fits 50 ml centrifuges tubes [3]Can be cut to fit, reusable

Dedicated Platforms with Clamps

Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity			
Platform Size		Capacity	Model No.
18 x 18" (45.7 x 45.7 cm)	10 ml Erlenmeyer Flask	113	11-675-413
	25 ml Erlenmeyer Flask	64	11-675-414
	50 ml Erlenmeyer Flask	64	11-675-415
	125 ml Erlenmeyer Flask	32	14-272-4A
	250 ml Erlenmeyer Flask	25	11-675-425
	300 ml Erlenmeyer Flask	16	11-675-426
	500 ml Erlenmeyer Flask	16	11-675-428
	1L Erlenmeyer Flask	9	11-675-429
	2L Erlenmeyer Flask	5	11-675-430
	10 ml beaker	152	11-675-416
	20 ml beaker	104	11-675-417
	30 ml beaker	104	11-675-418
	100 ml beaker	44	11-675-419
	250 ml beaker	25	11-675-420
	400 ml beaker	25	11-675-422
	600 ml beaker	16	11-675-423
	Utility Tray	–	11-675-424
	Adjustable Vessel Platform without bottom	–	11-675-427

Optional Accessories

MaxQ 6000	Model No.
Stacking Kit for additional MaxQ 6000 shaker	11-675-477
Adapter set for stacking two platforms	11-675-403
Seismic Restraint	11-675-478

MaxQ 8000 Incubated and Refrigerated Stackable Shakers

Maximizes flexibility and production capability in a convenient stackable design

- Units can be stacked two to three high for space savings with a speed range of 25 to 400 rpm ±1 rpm
- HEPA filter evenly distributes air inside the chamber and reduces cross contamination improving culturing conditions; rated at 95% efficient at 0.3 microns for entrapment of airborne particles
- Ergonomically designed fold down door and a platform that slides out 100% with a maximum platform height of 61" (154.9 cm) when stacked three units high improves sample handling
- Stacking kit is FREE with every unit
- User interface displays both set and actual run conditions to simplify programming and prevent entry error
- Crevice-free stainless steel interior with coved corners and built-in drain keeps spills within work area and promotes easy cleaning
- All maintenance can be handled from the front of the unit without having to move or unstack the shakers
- Chamber is tall enough to accommodate 2L Erlenmeyer flasks
- Standard remote alarm contacts allow convenient monitoring of alarm conditions from another location

Applications

- Growth of bacteria or yeast
- Dissolution studies
- Staining and destaining of electrophoresis gels
- Extractions
- Protein expression
- Growth of insect cells
- Hybridizations
- Protein purification

Ordering Information
**Select the right shaker for your needs and customize by
selecting either a Universal Platform or a Dedicated Platform.**

MaxQ 8000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Model. No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
						L	W	H			
MaxQ 8000 – Stackable Incubated Shaker											
Digital	25–400 ±1	1.0 (2.54)	71 (32)	10°C above ambient to 60°C ±0.15°C at 37°C in flask	±0.3°C at 37°C in flask	33.3 (84.6)/ 23.8 (60.5)	46.5 (118.1)/ 33.4 (84.8)	25 (63.5)/ 11.8 (30)	658 (298.5)	**11-676-061**	11-676-112
MaxQ 8000 – Stackable Incubated and Refrigerated Shaker											
Digital	25–400 ±1	1.0 (2.54)	71 (32)	20°C below ambient to 60°C ±0.15°C at 37°C in flask	±0.3°C at 37°C in flask	33.3 (84.6)/ 23.8 (60.5)	56.5 (143.5)/ 33.4 (84.8)	25 (63.5)/ 11.8 (30)	723 (328)	**11-676-062**	11-676-113

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 8000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	29.5 x 18" (74.9 x 45.7 cm)	Platform without Clamps	11-676-021
	Dedicated Platforms Clamps come installed to provide maximum capacity.	29.5 x 18" (74.9 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms on p. 25
Clamps	Mix and match clamps for your Universal Platform.			See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal Platform
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250/300 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps and replacement screws	11-676-020	–
Microplate	11-676-019	18
25 ml Erlenmeyer Flask	11-676-011	91
50 ml Erlenmeyer Flask	11-676-012	91
125 ml Erlenmeyer Flask	11-676-013	39
250/300 ml Erlenmeyer Flask	11-676-014	30
500 ml Erlenmeyer Flask	11-676-015	24
1L Erlenmeyer Flask	11-676-016	12
2L Erlenmeyer Flask	11-676-017	11
2800 ml Fernback Flask	11-676-018	6
Adhesive Flask Mat, 9 x 9" (23 x 23 cm)	13-687-50[3]	–
Replacement Screws: (50) #10-24 x 5/16" countersink Phillips head screws for clamps and (6) 1/4-20 x 3/4" countersink flat head socket for platforms and (2) 1/4"-20 x 1-1/2" hex socket set screws	11-676-004	
Universal Test Tube Rack with Holder (Must purchase desired test tube rack in addition to holder)		
Universal adjustable angle test tube rack holder	11-676-039	–
Test tube rack, 72 places, 10–13 mm (3–7 ml) tubes	11-676-043[2]	5 angled
Test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	11-676-044[2]	4 angled
Test tube rack, 40 places, 21–25 mm (30 ml) tubes	11-676-033[2]	4 angled
Test tube rack, 24 places, 26–30 mm (50 ml) tubes	11-676-034[2]	4 angled
Adjustable Test Tube Racks with Holder (Includes one test tube rack)		
Adjustable angle test tube rack holder with test tube rack, 72 places, 10–13 mm (3–7 ml) tubes	11-676-035[4]	5 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 16–20 mm (10–20 ml) tubes	11-676-036[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 40 places, 21–25 mm (30 ml) tubes	11-676-037[4]	4 angled
Adjustable angle test tube rack holder with test tube rack, 24 places, 26–30 mm (50 ml) tubes	11-676-038[4]	4 angled
Vial/Tube Inserts		
Pack of 5 vial/tube inserts, perforated for (3) 50 ml tubes, (3) 20 ml tubes, and (8) 1.5–2 ml vials (Requires 1L Erlenmeyer Flask Clamp 236015)	11-676-002	3 x 50 ml tubes, 3 x 20 ml tubes and 8 x 1.5/2.0 ml vials
Microplate Rack Inserts		
Microplate rack insert for standard plates, 3 shelves (Requires Universal adjustable angle test tube rack holder)	11-676-041	7 racks, 63 plates
Microplate rack insert for deep-well plates, 2 shelves (Requires Universal adjustable angle test tube rack holder)	11-676-040[1]	5 racks, 30 plates
Replacement Screws		
Replacement Screws (50) #10-24 x 5/16" countersink Phillips headscrews for mounting tube holders to platform	11-676-003	–

[1]Shaken at a 15 degree angle   [2]Requires 11-676-039 or a dedicated adjustable angle test tube rack holder of the corresponding size   [3]Can be cut to fit, reusable   [4]Includes rack holder

The universal test tube rack holder can be adjusted to fit any of the four available test tube rack sizes. Universal design requires the separate purchase of a test tube rack.

Adjustable test tube rack holders can be used only with their corresponding rack size. This design includes one test tube rack each.

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

	Clamps come installed to provide maximum capacity		
Platform Size	Description	Capacity	Model No.
29.5 x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer Flask	91	**11-676-022**
	50 ml Erlenmeyer Flask	91	**11-676-023**
	125 ml Erlenmeyer Flask	61	**11-676-024**
	250/300 ml Erlenmeyer Flask	30	**11-676-025**
	250/300 ml Erlenmeyer Flask	40	**11-676-026**
	500 ml Erlenmeyer Flask	24	**11-676-027**
	1L Erlenmeyer Flask	15	**11-676-028**
	2L Erlenmeyer Flask	12	**11-676-029**
	2800 ml Fernbach Flask	6	**11-676-030**

Optional Accessories

MaxQ 8000		Model No.
Stand for one Stackable Shaker 45.5"W x 29.6"H x 35.3"D (115.6 x 75.2 x 89.7 cm); 30.6" (77.7 cm) max. height with leveling feet extended		**11-676-005**
Stand for two Stackable Shakers 45.5"W x 11.8"H x 30.5"D (115.6 x 30.0 x 77.5 cm); 12.8" (32.5 cm) max. height with leveling feet extended		**11-676-006**
Door Glass Cover Prevents light from entering through window		**11-676-007**
7 Day Recorder 0–100°C, 6"	115V, 50/60 Hz	**11-676-009**
	220V, 50/60 Hz	**11-676-010**
Chart Paper, 50 sheet per box		**11-676-008**
HEPA filter, replacement		**11-676-042**
Sensaphone® Telephone Dialing System	Four Channel, 120V/60 Hz	**11-676-031**
Alarm system that will notify user via the telephone	Eight Channel, 120V/60 Hz	**11-676-032**

Microplate Rack Inserts
Our Microplate Rack Inserts are available for the Dedicated Adjustable Angle Test Tube Rack Holder (50 ml)-No. 11-676-038 and the Universal Adjustable Angle Test Tube Rack Holder-No. 11-676-039. You can increase your microplate shaking capacity, shake deepwell format plates at an angle, and remove many plates from the shaker at once for quick and easy transport to your benchtop.

Stands for Stackable Shakers
The single and dual shaker stands place the stackable shakers at a convenient working height. No stand is required for units stacked three high.

Vial/Tube Inserts for 1 Liter flask Clamps
Flexible, reusable, closed-cell foam Vial/Tube Inserts are ideal for shaking a mix of tube and vial sizes in temperature ranges up to 70°C (158°F). The insert fits snugly into a 1 liter flask clamp, repels spills, and is easy to clean.

MaxQ 7000
Water Bath Shakers

Maintain outstanding temperature uniformity for water bath shaker applications

- Easy access drain with quick disconnect located in the front of the cabinet for convenience in draining and disinfecting
- Alarm alerts operator in case of low water level
- Prevent heat loss and minimize evaporation with use of optional covers
- Minimize splashing and turbulence with twin baffles
- Optional cooling coil available for near ambient temperatures and below

Applications

- Cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing
- Bacterial suspensions
- Staining and destaining
- Washing procedures
- Hybridization

MaxQ 7000 with stainless-steel gable cover
Model No. 11-675-479 (See Optional Accessories, page 27)

MaxQ 7000 with Plexiglas® gable cover
Model No. 11-675-462 (See Optional Accessories, page 27)

Ordering Information
Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ 7000 Shaker

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max. Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/ Chamber Dimensions Inches (cm) L	W	H	Chamber Capacity Gallons (L)	Shipping Weight Lb. (kg)	Model No. 120V, 50/60 Hz	Model No. 240V, 50/60 Hz
MaxQ 7000 – Water Bath Shaker												
Analog	40–400	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C ±0.2°C at 37°C in flask	±0.1°C at 37°C in flask	25 (63.5)/ 16 (41)	21.5 (54.6)/ 14 (36)	18 (45.7)/ 8 (20.3)	7.7 (29.4)	107 (48.5)	11-675-941	11-676-114
Digital	15–500 ±1	0.50 (1.27)	35 (15.9)	5°C above ambient to 65°C ±0.2°C at 37°C in flask	±0.1°C at 37°C in flask	25 (63.5)/ 16 (41)	21.5 (54.6)/ 14 (36)	18 (45.7)/ 8 (20.3)	7.7 (29.4)	107 (48.5)	11-675-211	11-676-115

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 7000				Model. No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.		11 x 13" (28 x 33 cm)	Platform without Clamps	11-675-401
	Dedicated Platforms Clamps come installed to provide maximum capacity.		11 x 13" (28 x 33 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform.				See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Max. clamp capacity of vessels for the Universal platform MaxQ 7000 11 x 13" (28 x 33 cm)
Flask Clamp Starter Kit, includes (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, (2) 2L flask clamps	11-675-475	
Microplate/Deep-well plate	14-512-314	5
10 ml Erlenmeyer Flask	14-512-315	60
25 ml Erlenmeyer Flask	22-262-769	60
50 ml Erlenmeyer Flask	11-675-476	30
125 ml Erlenmeyer Flask	14-272-4AA	13
250 ml Erlenmeyer Flask	14-272-4B	9
300 ml Erlenmeyer Flask	14-512-316	7
500 ml Erlenmeyer Flask	22-256-959	6
1L Erlenmeyer Flask	14-272-4F	4
2L Erlenmeyer Flask	22-262-773	1
4L Erlenmeyer Flask	14-512-317	1
6L Erlenmeyer Flask	14-512-318	1
2500 ml Low Form Culture Flask	14-512-319	1
2800 ml Fernbach Flask	14-512-320	1
Test Tube Racks – Full Size		
10–13 mm, red, 6 x 12 array	14-512-107	3
14–16 mm, orange, 6 x 12 array	14-512-109[1]	2
17–20 mm, white, 4 x 10 array	14-512-111	3
21–25 mm, blue, 4 x 10 array	14-512-113	2
26–30 mm, green, 3 x 8 array	14-512-115[2]	2
Microcentrifuge, 1.5 ml, blue, 8 x 12 array	14-512-117	2
Test Tube Racks – Half Size		
10–13 mm, red, 6 x 6 array	14-512-108	6
14–16 mm, orange, 6 x 6 array	14-512-110[1]	4
17–20 mm, white, 4 x 5 array	14-512-112	4
21–25 mm, blue, 4 x 4 array	14-512-114	4
26–30 mm, green, 3 x 3 array	14-512-116[2]	6
Microcentrifuge, 1.5 ml, blue, 4 x 6 array	14-512-118	4

[1]Fits 15 ml centrifuge tubes   [2]Fits 50 ml centrifuges tubes

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Platform Size	Clamps come installed to provide maximum capacity		Capacity	Model No.
11 x 13" (28 x 33 cm)		10 ml Erlenmeyer Flask	63	11-676-046
		25 ml Erlenmeyer Flask	32	11-676-047
		50 ml Erlenmeyer Flask	32	11-676-048
		125 ml Erlenmeyer Flask	16	11-676-049
		250 ml Erlenmeyer Flask	9	11-676-050
		300 ml Erlenmeyer Flask	8	11-676-051
		500 ml Erlenmeyer Flask	6	11-676-052
		1L Erlenmeyer Flask	4	11-676-053
		2L Erlenmeyer Flask	2	11-676-054
		10 ml Beaker	76	11-676-055
		20 ml Beaker	52	11-676-056
		30 ml Beaker	52	11-676-057
		100 ml Beaker	22	11-676-058
		Utility Tray	–	11-676-059
		Basket Platform with Retainer Springs	–	11-676-060

Optional Accessories

MaxQ 7000	Model No.
Cooling Coil, customer installed Needed for near-ambient temperature and below	11-675-464[3]
Gable cover, Stainless-steel For temperatures up to 90°C	11-675-479
Gable cover, Plexiglas® For temperatures up to 65°C	11-675-462
Auxiliary Platform Suspension Arms Used for rapid platform changes	11-675-465
Movable Dolly For under lab bench operation	11-675-466
Mobile Cart	11-675-467

[3]This accessory requires a circulating chiller

Introducing the

Thermo Scientific MaxQ High Performance Shakers

Optimized growth with proven technologies

Your cultures need to be protected.

That's why our MaxQ High Performance shakers feature set point security which restricts unauthorized or inadvertent changes to key functions. To ensure the safety of your samples, our shakers are equipped with alarm contacts allowing them to be connected to remote alarms making you aware of how the shaker is performing at all times, safeguarding both the shaker and contents.

Your cultures require optimum growth.

Outstanding temperature uniformity of ±0.3°C is provided by a directed laminar airflow and HEPA filtration system even when the units are fully loaded with samples. Low end temperature of 4°C is achieved efficiently and effectively by the filtered front to back refrigeration system airflow. This design outperforms side-to-back and back-to-back airflow designs even in high ambients.

Your sample monitoring just got easier!

Our MaxQ High Performance shakers feature a backlit display that can be viewed in bright or dimly lit conditions. It contains both run points and set points of temperature, speed and time which can be viewed simultaneously, preventing toggling from one display to another.

MaxQ High Performance 416 and 430 Open Air Platform Shakers

Choice of two platform sizes maximizes capacity

- Low heat 24V DC motor with moisture resistant electronics provides continuous maintenance-free operation on the benchtop or in a chamber
- Triple counter-balanced mechanism for optimum handling of full or unbalanced loads regardless of vessel placement and completely eliminates walking
- Units operate in temperature range of 4°C to +40°C and humidity conditions from 50 to 80% non-condensing enabling them to be used in a variety of environments
- Oversized, adjustable suction cup feet minimize vibration

Applications

- Cell culture
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing
- Bacterial suspensions
- Staining
- Destaining
- Washing procedures
- Hybridizations

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ High Performance 416 and 430 Shakers

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max Load Lb. (kg)	Overall Dimensions Inches (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 115V/230V, 50/60Hz (Dual Voltage)
MaxQ 416 HP - Mid-Size Open Air Shaker								
Digital	25–525 ±1	1.0 (2.5)	71 (32)	26 (66)	24.3 (61.7)	7.8 (19.8)	234 (106)	11-676-231
MaxQ 430 HP - Large Open Air Shaker								
Digital	25–525 ±1	1.0 (2.5)	71 (32)	26 (66)	30.5 (77.5)	7.8 (19.8)	234 (106)	11-676-233

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 416 HP				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	18" x 18" (45.7 x 45.7 cm)	Platform without Clamps	238000
		24" x 18" (60.9 x 45.7 cm)	Platform without Clamps	238008
	Dedicated Platforms Clamps come installed to provide maximum capacity.	18" x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
		24" x 18" (60.9 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform			See Universal Clamp Guide below
MaxQ 430 HP				**Model No.**
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	29.5" x 18" (74.9 x 45.7 cm)	Platform without Clamps	238001
		36" x 24" (91.4 x 60.9 cm)	Platform without Clamps	238002
	Dedicated Platforms Clamps come installed to provide maximum capacity.	29.5" x 18" (74.9 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
		36" x 24" (91.4 x 60.9 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform			See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform.			
		MaxQ 416 HP 18" x 18" (45.7 x 45.7 cm)	24" x 18" (60.9 x 45.7 cm)	MaxQ 430 HP 29.5" x 18" (74.9 x 45.7 cm)	36" x 24" (91.4 x 60.9 cm)
Flask Clamp Starter Kit includes: (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, and (2) 2L flask clamps	11-676-020				
Microplate / Deepwell Plate	11-676-019	10	16	18	31
25 ml Erlenmeyer Flask	11-676-011	49	80	91	150
50 ml Erlenmeyer Flask	11-676-012	49	80	91	150
125 ml Erlenmeyer Flask	11-676-013	25	40	39	75
250/300 ml Erlenmeyer Flask	11-676-014	18	25	30	55
500 ml Erlenmeyer Flask	11-676-015	16	20	24	30
1L Erlenmeyer Flask	11-676-016	8	12	12	24
2L Erlenmeyer Flask	11-676-017	6	8	11	15
4L Erlenmeyer Flask	236017	4	5	6	11
5L Erlenmeyer Flask	236028	4	4	6	8
6L Erlenmeyer Flask	236018	2	4	4	8
2800 ml Fernbach Flask	11-676-018	4	5	6	11
Adhesive Flask Mat	13-687-50	–	–	–	–
Adjustable Test Tube Racks with Holder (Includes one test tube rack)					
10–13 mm - 3–7 ml tube rack - 72 place	11-676-035	4	6	8	16
16–20 mm - 10–20 ml tube rack - 40 place	11-676-036	4	6	7	16
21–25 mm - 30 ml tube rack - 40 place	11-676-037	3	5	6	9
26–30 mm - 50 ml tube rack -24 place	11-676-038	3	5	6	9
Universal Test Tube Rack with Holder (Must purchase desired test tube rack in addition to holder)					
Universal adjustable angle test tube rack holder	11-676-039	–	–	–	–
10–13 mm - 3–7 ml tube rack - 72 place	11-676-043	3	4	5	9
16–20 mm - 10–20 ml tube rack - 40 place	11-676-044	3	4	5	9
21–25 mm - 30 ml tube rack - 40 place	11-676-033	2	3	4	7
26–30 mm - 50 ml tube rack -24 place	11-676-034	2	3	4	7
Microplate Racks and Vial/Tube Inserts					
Microplate Rack for Standard Plates	11-676-041[1]	4 racks, 36 plates	5 racks, 45 plates	7 racks, 63 plates	8 racks, 72 plates
Microplate Rack for Deepwell Plates	11-676-040[2]	3 racks, 18 plates	4 racks, 24 plates	5 racks, 30 plates	7 racks, 42 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	11-676-002*	8	12	12	24
Universal Utility Trays					
9" x 18" (22.9 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	236026	1	2	3	3
18" x 18" (45.7 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	236027	1	1	1	2

*Holds 3 x 50 ml tubes, 3 x 20 ml tubes, and 8 x 1.5/2.0 ml vials   [1]3 shelves   [2]2 shelves

Miscellaneous Accessories

MaxQ HP 416, 430	Model No.
9.0" x 18.0" (22.9 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	236026
18.0" x 18.0" (45.7 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	236027
Quick change platform adapter	194040
MagNote wipe-off magnet and pen kit (benchtop models only)	194140
Four channel Sensaphone telephone dialing system	13-994-066
Eight channel Sensaphone telephone dialing system	400134
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	11-676-003
Replacement screws: (50) #10-24 x 5/16" Countersink Phillips Head Screws for Clamps and (12) 1/4-20 x 3/4" Countersink Flat Head Socket Screws for Platforms	11-676-004

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity

Platform Size	Description	Capacity	Model No.
MaxQ 416 HP			
18" x 18" (45.7 x 45.7 cm)	25 ml Erlenmeyer Flask	49	238010
	50 ml Erlenmeyer Flask	49	238011
	125 ml Erlenmeyer Flask	25	238012
	125 ml Erlenmeyer Flask*	36	238049
	250/300 ml Erlenmeyer Flask	18	238013
	250/300 ml Erlenmeyer Flask*	25	238050
	500ml Erlenmeyer Flask	16	238014
	1L Erlenmeyer Flask	8	238015
	2L Erlenmeyer Flask	6	238016
	4L Erlenmeyer Flask	4	238046
	5L Erlenmeyer Flask	4	238053
	6L Erlenmeyer Flask	2	238047
	2800ml Fernbach Flask	4	238048
24" x 18" (60.9 x 45.7 cm)	25 ml Erlenmeyer Flask	80	238036
	50 ml Erlenmeyer Flask	80	238037
	125 ml Erlenmeyer Flask	40	238038
	250/300 ml Erlenmeyer Flask	25	238052
	250/300 ml Erlenmeyer Flask*	35	238039
	500 ml Erlenmeyer Flask	20	238040
	1L Erlenmeyer Flask	12	238041
	2L Erlenmeyer Flask	8	238042
	4L Erlenmeyer Flask	5	238043
	5L Erlenmeyer Flask	4	238055
	6L Erlenmeyer Flask	4	238044
	2800 ml Fernbach Flask	5	238045
MaxQ 430 HP			
29.5" x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer Flask	91	238017
	50 ml Erlenmeyer Flask	91	238018
	125 ml Erlenmeyer Flask	61	238019
	250/300 ml Erlenmeyer Flask	30	238051
	250/300 ml Erlenmeyer Flask*	40	238020
	500 ml Erlenmeyer Flask	24	238021
	1L Erlenmeyer Flask	15	238022
	2L Erlenmeyer Flask	12	238023
	4L Erlenmeyer Flask	6	238024
	5L Erlenmeyer Flask	6	238054
	6L Erlenmeyer Flask	4	238025
	2800 ml Fernbach Flask	6	238026
36" x 24" (91.4 x 60.9 cm)	25 ml Erlenmeyer Flask	150	238057
	50 ml Erlenmeyer Flask	150	238058
	125 ml Erlenmeyer Flask	96	238027
	250/300 ml Erlenmeyer Flask*	70	238028
	500 ml Erlenmeyer Flask	30	238029
	1L Erlenmeyer Flask	24	238030
	2L Erlenmeyer Flask	15	238031
	4L Erlenmeyer Flask	11	238032
	5L Erlenmeyer Flask	8	238056
	6L Erlenmeyer Flask	8	238033
	2800 ml Fernbach Flask	11	238034

*Increased capacity design does not allow the use of flasks larger than 500 ml.

MaxQ High Performance 420 Large Benchtop Incubated Shakers

Outstanding temperature uniformity improves product yields

Double-wall, insulated chamber contributes to optimum growth

- Twin blowers and gasketed lid ensure temperature uniformity of ±0.3°C (in flask) creating an ideal environment for temperature sensitive cultures
- Triple counter-balanced mechanism
- Microprocessor functions are calibrated through keypad
- Platform easily accommodates 6 x 2L flasks
- Clear acrylic lid withstands years of use without cracking or discoloration
- Audible/visual over and under-temperature alarms ensure sample protection
- Innovative design ensures system protection in case of spills

Applications

- Cell culture
- DNA fingerprinting
- Solubility studies
- Extraction procedures
- Protein expressions
- Bacterial suspensions
- Washing procedures
- Staining and destaining

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ High Performance 420 Shakers

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/Chamber Dimensions In (cm)			Shipping Weight Lb. (kg)	Model No. 115V/230V, 50/60Hz (Dual Voltage)
						L	W	H		
MaxQ 420 HP - Incubated Benchtop Shaker										
Digital	25–525 ±1	1.0 (2.5)	71 (32)	5°C above ambient to 80°C, ±0.1°C	±0.3°C at 37°C in flask	29 (73.7)/ 21.2 (53.8)	24.3 (61.7)/ 21.4 (54.4)	20.9 (53.1)/ 12.6 (32)	250 (113.4)	11-676-232

Platforms

Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 420 HP				Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	18" x 18" (45.7 x 45.7 cm)	Platform without Clamps	238000
	Dedicated Platforms Clamps come installed to provide maximum capacity.	18" x 18" (45.7 x 45.7 cm)	Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform			See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform. MaxQ 420 HP 18" x 18" (45.7 x 45.7 cm)
Flask Clamp Starter Kit includes: (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, and (2) 2L flask clamps	11-676-020	
Microplate / Deepwell Plate	11-676-019	10
25 ml Erlenmeyer Flask	11-676-011	49
50 ml Erlenmeyer Flask	11-676-012	49
125 ml Erlenmeyer Flask	11-676-013	25
250/300 ml Erlenmeyer Flask	11-676-014	18
500 ml Erlenmeyer Flask	11-676-015	16
1L Erlenmeyer Flask	11-676-016	8
2L Erlenmeyer Flask	11-676-017	6
2800 ml Fernbach Flask	11-676-018	4
Adhesive Flask Mat	13-687-50	–
Adjustable Test Tube Racks with Holder (Includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	11-676-035	4
16–20 mm - 10–20 ml tube rack - 40 place	11-676-036	4
21–25 mm - 30 ml tube rack - 40 place	11-676-037	3
26–30 mm - 50 ml tube rack -24 place	11-676-038	3
Universal Test Tube Racks with Holder (Must purchase desired test tube rack in addition to holder)		
Universal Adjustable Tube Rack Holder	11-676-039	–
10–13 mm - 3–7 ml tube rack - 72 place	11-676-043	3
16–20 mm - 10–20 ml tube rack - 40 place	11-676-044	3
21–25 mm - 30 ml tube rack - 40 place	11-676-033	2
26–30 mm - 50 ml tube rack -24 place	11-676-034	2
Microplate Racks and Vial/Tube Inserts		
Microplate Rack for Standard Plates (3 shelves)	11-676-041	4 racks, 36 plates
Microplate Rack for Deepwell Plates (2 shelves)	11-676-040	3 racks, 18 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	11-676-002*	8
Universal Utility Trays		
9" x 18" (22.9 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	236026	1
18" x 18" (45.7 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	236027	1

*Holds 3 x 50 ml tubes, 3 x 20 ml tubes and 8 x 1.5/2.0 ml vials

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Clamps come installed to provide maximum capacity

Platform Size	Description	Capacity	Model No.
18" x 18" (45.7 x 45.7 cm)	25 ml Erlenmeyer Flask	49	238010
	50 ml Erlenmeyer Flask	49	238011
	125 ml Erlenmeyer Flask	25	238012
	125 ml Erlenmeyer Flask	36	238049
	250/300 ml Erlenmeyer Flask	18	238013
	250/300 ml Erlenmeyer Flask	25	238050
	500 ml Erlenmeyer Flask	16	238014
	1L Erlenmeyer Flask	8	238015
	2L Erlenmeyer Flask	6	238016
	2800 ml Fernbach Flask	4	238048

Miscellaneous Accessories

MaxQ HP 420	Model No.
Dual-stack benchtop shaker kit, includes kneewell side mount and orbital shaker stand	452000
Kneewell slide mount, shaker slides out on rails for easy access: 26.6" W x 22.2" H x 33" D (67.6 cm x 56.4 cm x 83.8 cm)	452002
Orbital shaker stand, uses 33.5" W x 37.3" H x 35.3" D of floor space (85.1 cm x 94.7 cm x 89.7 cm)	452001
Four drawer assembly, dimensions: 9.0" W x 18.0" H x 21.5" D (22.9 cm x 45.7 cm x 54.6 cm)	191494
Roller base for drawer assembly, adds 3" (7.6 cm) to height: 9.4" W x 3.6" H x 21.9" D (23.9 cm x 9.1 cm x 55.6 cm)	191591
Gassing manifold (one gas)	194045
Free-standing 0–100°C, 6", seven day chart recorder, 115V, 60 Hz	11-676-009
Free-standing 0–100°C, 6", seven day chart recorder, 220V, 50 Hz	11-676-010
Replacement chart paper, 50 per box	11-676-008
9.0" x 18.0" (22.9 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	236026
18.0" x 18.0" (45.7 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	236027
Quick change platform adapter	194040
MagNote wipe-off magnet and pen kit (benchtop models only)	194140
Four channel Sensaphone telephone dialing system	13-944-066
Eight channel Sensaphone telephone dialing system	400134
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	11-676-003
Replacement screws: (50) #10-24 x 5/16" Countersink Phillips Head Screws for Clamps and (12) 1/4-20 x 3/4" Countersink Flat Head Socket Screws for Platforms	11-676-004

MaxQ High Performance Incubated and Refrigerated Floor Shakers Models 435 (436) and 480R (481R)

Solutions for high capacity requirements

- HEPA filtration for maximum protection from contamination
- Drain system with valve makes it easy to eliminate liquid, reducing the risk of water borne contamination
- Directed laminar airflow system for optimum temperature uniformity
- Crevice-free, stainless steel interior with coved corners for easy cleaning
- Viewing window offers sample visibility
- Access port in rear of cabinet allows insertion of probes, CO_2 gassing manifolds or other equipment
- Foot pedal opens lid for hands free operation
  - Floor models meet specified performance of 4°C to 60°C even in high ambient temperatures
  - Low end temperature is achieved by the filtered front to back refrigeration air flow system

Applications

- Cell culture
- Extractions
- Plasmid purifications
- Solubility studies
- Hybridizations
- Staining and destaining

Ordering Information

Select the right shaker for your needs and customize by selecting either a Universal Platform or a Dedicated Platform.

MaxQ High Performance 435 (436) and 480R (481R) Shakers

Shaker Options	Speed Range (rpm)	Orbit Diameter In. (cm)	Max Load Lb. (kg)	Temperature Range and Accuracy	Temperature Uniformity	Overall Dimensions/Chamber Dimensions In (cm) L	W	H	Shipping Weight Lb. (kg)	Model No. 120V, 60Hz	Model No. 230V, 50/60Hz
MaxQ 435 / 436 HP - Large Incubated Floor Shaker											
Digital	25–525 ±1	1.0 (2.5)	71 (32)	5°C above ambient to 60°C, ±0.1°C	±0.2°C at 37°C in flask	30 (76.2)/ 21.1 (53.6)	45 (114.3)/ 34.3 (87.1)	40.4 (102.6)/ 18.5 (47)	610 (277)	11-676-237	11-676-234
MaxQ 480R / 481R HP - Large Incubated and Refrigerated Floor Shaker											
Digital	25–525 ±1	1.0 (2.5)	71 (32)	4°C to 60°C, ±0.1°C	±0.2°C at 37°C in flask	30 (76.2)/ 21.1 (53.6)	45 (114.3)/ 34.3 (87.1)	40.4 (102.6)/ 18.5 (47)	665 (302)	11-676-235	11-676-236

Platforms
Maximize flexibility by choosing your platform and selecting a mixture of clamps.

MaxQ 435 / 436 / 480R / 481R HP			Model No.
Platforms Choose the platform that best fits your needs.	Universal Platforms Maximum flexibility for using a mix of different size labware on a single platform. See Universal Clamp Guide for clamp capacities. Purchase clamps separately.	29.5" x 18" (74.9 x 45.7 cm) Platform without Clamps	238001
	Dedicated Platforms Clamps come installed to provide maximum capacity.	29.5" x 18" (74.9 x 45.7 cm) Platform with Clamps	See Dedicated Platforms below
Clamps	Mix and match clamps for your Universal Platform		See Universal Clamp Guide below

Universal Clamp Guide
Mix and match to customize the Universal Platform for your unique needs. Clamps sold as individual units.

Clamp	Model No.	Clamp Capacity Guide Maximum clamp capacity of vessels for the Universal Platform. MaxQ 435 / 436 / 480R / 481R HP 29.5" x 18" (74.9 x 45.7 cm)
Flask Clamp Starter Kit includes: (2) 25 ml flask clamps, (2) 50 ml flask clamps, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flask clamps, and (2) 2L flask clamps	11-676-020	
Microplate / Deepwell Plate	11-676-019	18
25 ml Erlenmeyer Flask	11-676-011	91
50 ml Erlenmeyer Flask	11-676-012	91
125 ml Erlenmeyer Flask	11-676-013	39
250/300 ml Erlenmeyer Flask	11-676-014	30
500 ml Erlenmeyer Flask	11-676-015	24
1L Erlenmeyer Flask	11-676-016	12
2L Erlenmeyer Flask	11-676-017	11
4L Erlenmeyer Flask	236017	6
5L Erlenmeyer Flask	236028	6
6L Erlenmeyer Flask	236018	4
2800 ml Fernbach Flask	11-676-018	6
Adhesive Flask Mat	13-687-50	–
Adjustable Test Tube Racks with Holder (Includes one test tube rack)		
10–13 mm - 3–7 ml tube rack - 72 place	11-676-035	4
16–20 mm - 10–20 ml tube rack - 40 place	11-676-036	4
21–25 mm - 30 ml tube rack - 40 place	11-676-037	3
26–30 mm - 50 ml tube rack -24 place	11-676-038	3
Universal Test Tube Racks with Holder (Must purchase desired test tube rack in addition to holder)		
Universal Adjustable Tube Rack Holder	11-676-039	–
10–13 mm - 3–7 ml tube rack - 72 place	11-676-043	3
16–20 mm - 10–20 ml tube rack - 40 place	11-676-044	3
21–25 mm - 30 ml tube rack - 40 place	11-676-033	2
26–30 mm - 50 ml tube rack -24 place	11-676-034	2
Microplate Racks and Vial/Tube Inserts		
Microplate Rack for Standard Plates (3 shelves)	11-676-041	7 racks, 63 plates
Microplate Rack for Deepwell Plates (2 shelves)	11-676-040	5 racks, 30 plates
Pack of 5 vial/tube inserts for use in 1L flask clamps	11-676-002*	12
Universal Utility Trays		
9" x 18" (22.9 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	236026	1
18" x 18" (45.7 x 45.7 cm) Utility Tray with 0.5" (1.3 cm) rubber pad	236027	1

*Holds 3 x 5 0 ml tubes, 3 x 20 ml tubes and 8 x 1.5/2.0 ml vials

Dedicated Platforms with Clamps
Maximize capacity by choosing your platform with pre-installed clamps.

Platform Size	Description	Capacity	Model No.
	Clamps come installed to provide maximum capacity		
29.5" x 18" (74.9 x 45.7 cm)	25 ml Erlenmeyer Flask	91	238017
	50 ml Erlenmeyer Flask	91	238018
	125 ml Erlenmeyer Flask	61	238019
	250/300 ml Erlenmeyer Flask	30	238051
	250/300 ml Erlenmeyer Flask	40	238020
	500 ml Erlenmeyer Flask	24	238021
	1L Erlenmeyer Flask	15	238022
	2L Erlenmeyer Flask	12	238023
	4L Erlenmeyer Flask	6	238024
	5L Erlenmeyer Flask	6	238054
	6L Erlenmeyer Flask	4	238025
	2800 ml Fernbach Flask	6	238026

Miscellaneous Accessories

MaxQ HP 435, 436, 480, 481	Model No.
Removable shelf	194033
Gassing manifold (one gas)	194045
0°C to 60°C, seven day chart recorder, 115V, 50/60 Hz	201113
Replacement chart paper, 50 per box	50-866-066
HEPA filter replacement	760164
9.0" x 18.0" (22.9 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	236026
18.0" x 18.0" (45.7 x 45.7 cm) Utility tray with 0.5" (1.3 cm) thick rubber pad	236027
Platform adapter for NBS 30" x 18.0" (76.2 cm x 45.7 cm) platform	194041
Quick change platform adapter	194040
MagNote wipe-off magnet and pen kit (floor models only)	194139
Four channel Sensaphone telephone dialing system	13-994-066
Eight channel Sensaphone telephone dialing system	400134
Replacement screws: (50) #10-24 x 3/8" pan head Phillips screws for mounting test tube holders to platform	11-676-003
Replacement screws: (50) #10-24 x 5/16" Countersink Phillips Head Screws for Clamps and (12) 1/4-20 x 3/4" Countersink Flat Head Socket Screws for Platforms	11-676-004

Learn more about our shakers!

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Enhance your shakers with Thermo Scientific Labware

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